AM4520

AdvancedMC SAS Storage Module

kontron

Board Rev. 2

QUICK REFERENCE

Document version 2.3

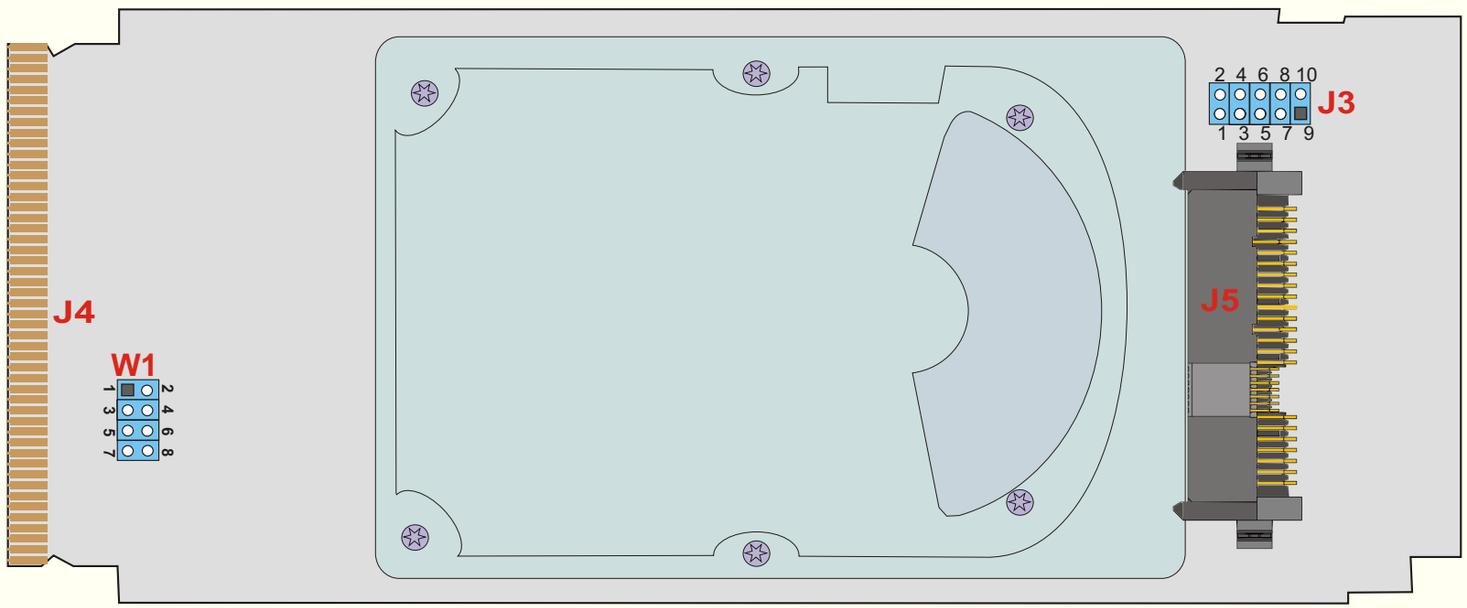
First Level Debugging

1. If the hard drive detection fails, check if the AMC card is properly inserted and verify the HDD configuration in the BIOS setting.

CONNECTORS

J3	Reserved
J4	AMC Connector
J5	SAS Disk Connector

WARNING Height Out of AMC.0 Rev 2 Spec.when fitted with SAS HDD.





JUMPER SETTINGS (● Default Setting)

W1 1-2 - Reserved	
● Reserved	out

W1 3-4 - Reserved	
● Reserved	out

W1 5-6 - Reserved	
● Reserved	out

W1 7-8 - Reserved	
● Reserved	in

Symbols Chart

- Hot Swap
- Out Of Service
- Healthy

LEDs Signification available on back.

Connector Pinouts

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J5 - SAS / SATA

S1	GND	P1	3.3V
S2	PortA_TX+	P2	3.3V
S3	PortA_TX-	P3	3.3V
S4	GND	P4	GND
S5	PortA_RX-	P5	GND
S6	PortA_RX+	P6	GND
S7	GND	P7	5V
S8	GND	P8	5V
S9	PortB_TX+	P9	5V
S10	PortB_TX-	P10	GND
S11	GND	P11	Ready LED
S12	PortB_RX-	P12	GND
S13	PortB_RX+	P13	12V
S14	GND	P14	12V
		P15	12V

J4 - AMC Connector

B1	GND	B43	GND	B86	GND	B129	RxD15-(N.C.)
B2	12V	B44	TxD4+(N.C.)	B87	RxD8-(N.C.)	B130	RxD15+(N.C.)
B3	PS1#	B45	TxD4-(N.C.)	B88	RxD8+(N.C.)	B131	GND
B4	MP_3V3	B46	GND	B89	GND	B132	TxD15-(N.C.)
B5	GA0	B47	RxD4+(N.C.)	B90	TxD8-(N.C.)	B133	RxD15+(N.C.)
B6	N.C.	B48	RxD4-(N.C.)	B91	TxD8+(N.C.)	B134	GND
B7	GND	B49	GND	B92	GND	B135	RxD16-(N.C.)
B8	N.C.	B50	TxD5+(N.C.)	B93	RxD9-(N.C.)	B136	RxD16+(N.C.)
B9	12V	B51	TxD5-(N.C.)	B94	RxD9+(N.C.)	B137	GND
B10	GND	B52	GND	B95	GND	B138	TxD16-(N.C.)
B11	TxD0+(N.C.)	B53	RxD5+(N.C.)	B96	TxD9-(N.C.)	B139	TxD16+(N.C.)
B12	TxD0-(N.C.)	B54	RxD5-(N.C.)	B97	TxD9+(N.C.)	B140	GND
B13	GND	B55	GND	B98	GND	B141	RxD17-(N.C.)
B14	RxD0+(N.C.)	B56	IPMI_CLK	B99	RxD10-(N.C.)	B142	RxD17+(N.C.)
B15	RxD0-(N.C.)	B57	12V	B100	RxD10+(N.C.)	B143	GND
B16	GND	B58	GND	B101	GND	B144	TxD17-(N.C.)
B17	GA1	B59	TxD6+(N.C.)	B102	TxD10-(N.C.)	B145	TxD17+(N.C.)
B18	12V	B60	TxD6-(N.C.)	B103	TxD10+(N.C.)	B146	GND
B19	GND	B61	GND	B104	GND	B147	RxD18-(N.C.)
B20	TxD1+(N.C.)	B62	RxD6+(N.C.)	B105	RxD11-(N.C.)	B148	RxD18+(N.C.)
B21	TxD1-(N.C.)	B63	RxD6-(N.C.)	B106	RxD11+(N.C.)	B149	GND
B22	GND	B64	GND	B107	GND	B150	TxD18-(N.C.)
B23	RxD1+(N.C.)	B65	TxD7+(N.C.)	B108	TxD11-(N.C.)	B151	TxD18+(N.C.)
B24	RxD1-(N.C.)	B66	TxD7-(N.C.)	B109	TxD11+(N.C.)	B152	GND
B25	GND	B67	GND	B110	GND	B153	RxD19-(N.C.)
B26	GA2	B68	RxD7+(N.C.)	B111	RxD12-(N.C.)	B154	RxD19+(N.C.)
B27	12V	B69	RxD7-(N.C.)	B112	RxD12+(N.C.)	B155	GND
B28	GND	B70	GND	B113	GND	B156	TxD19-(N.C.)
B29	TxD2+(SAS_PA)	B71	IPMI_DATA	B114	TxD12-(N.C.)	B157	TxD19+(N.C.)
B30	TxD2-(SAS_PA)	B72	12V	B115	TxD12+(N.C.)	B158	GND
B31	GND	B73	GND	B116	GND	B159	RxD20-(N.C.)
B32	RxD2+(SAS_PA)	B74	CLKA+(N.C.)	B117	RxD13-(N.C.)	B160	RxD20+(N.C.)
B33	RxD2-(SAS_PA)	B75	CLKA-(N.C.)	B118	RxD13+(N.C.)	B161	GND
B34	GND	B76	GND	B119	GND	B162	TxD20-(N.C.)
B35	TxD3+(SAS_PB)	B77	CLKB+(N.C.)	B120	TxD13-(N.C.)	B163	TxD20+(N.C.)
B36	TxD3-(SAS_PB)	B78	CLKB-(N.C.)	B121	TxD13+(N.C.)	B164	GND
B37	GND	B79	GND	B122	GND	B165	TCLK
B38	RxD3+(SAS_PB)	B80	CLKC+(N.C.)	B123	RxD14-(N.C.)	B166	TMS
B39	RxD3-(SAS_PB)	B81	CLKC-(N.C.)	B124	RxD14+(N.C.)	B167	TRST#
B40	GND	B82	GND	B125	GND	B168	TDO
B41	ENABLE#	B83	PS0#	B126	TxD14-(N.C.)	B169	TDI
B42	12V	B84	12V	B127	TxD14+(N.C.)	B170	GND
		B85	GND	B128	GND		

LEDs Signification

Hot Swap (Blue)

Solid On (100 % on): FRU Inactive
Long Blink (90 % on): FRU Activation Request
Solif Off (0 % on): FRU Activation In Progress / FRU Active
Short Blink (10 % on): FRU Deactivation Request / FRU Deactivation In Progress

Out of service (Red/Amber) [default : red]

Solid On : IPMC in reset
Fast Blink (~50 % on): IPMC upgrade/rollback in progress
Short Blink (10 % on): FRU Power Denied
Application Defined : May be controlled by application using PICMG API

Health Led & HDD Activity (Amber/Green) [default : green]

Green : Health Ok
Amber : Health Error (Critical) / Payload power down or in reset
Application Defined : May be controlled by application using PICMG API
Blink : HDD Activity

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The Quick Reference Sheet can be downloaded from the Kontron web site at:
http://www.kontron.com
or from Kontron FTP site at:
ftp://ftp.kontron.ca/Support/

1016-7553